

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

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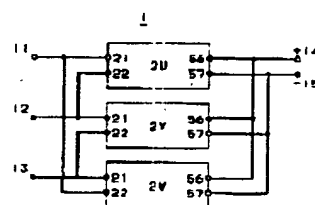
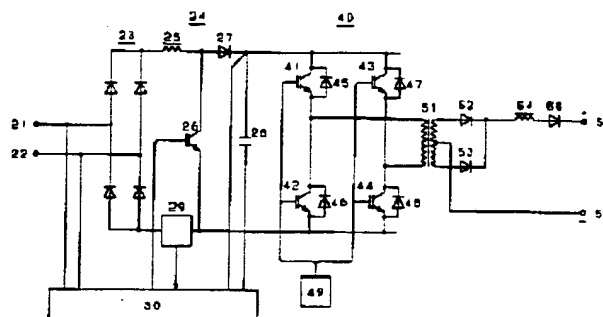
APPLICATION DATE : 19-02-98
APPLICATION NUMBER : 10055902

APPLICANT : SANSHA ELECTRIC MFG CO LTD;

INVENTOR : TEJIMA MASAO;

INT.CL. : H02M 7/23 H02M 3/155 H02M 3/28
H02M 7/217

TITLE : POWER SUPPLY WITH THREE-PHASE
HIGH POWER FACTOR CONVERTER



ABSTRACT : PROBLEM TO BE SOLVED: To suppress a high-frequency noise generated between the earth and each of the three input terminals of a three-phase power supply.

SOLUTION: In a fundamental single-phase unit 2, there are provided input rectifier diodes 23, a high power factor converter 24 for making approximate to one the input power factor of the fundamental single-phase unit 2 and for boosting the DC voltage rectified by the input rectifier diodes 23, a DC/AC converting device 40 for converting the boosted DC voltage into a high-frequency AC voltage, a transformer 51 for transforming the high-frequency AC voltage, output rectifier diodes 52, 53 for rectifying again the transformed high-frequency AC voltage, and a reverse-current blocking diode 55 provided in the output of the unit 2. Then, each of three fundamental single-phase units 2U, 2V, 2W is provided connectively between a pair of three-phase lines of a power supply unit to connect with each other the respective first output terminals of the units 2U, 2V, 2W and connect with each other their respective second output terminals.

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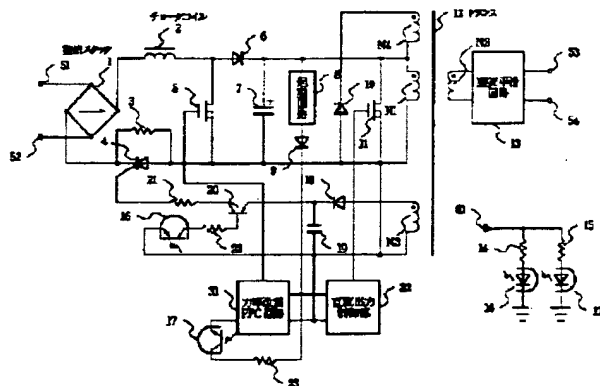
APPLICATION DATE : 21-06-95
APPLICATION NUMBER : 07154719

APPLICANT : KOFU NIPPON DENKI KK;

INVENTOR : SHIMURA MASAKI;

INT.CL. : H02M 7/06 H02H 3/08 H02J 1/00
H02M 3/28

TITLE : SWITCHING REGULATOR



ABSTRACT : PURPOSE: To obtain a switching regulator in which the power loss, of an inrush- current preventing resistor, generated in the rise of a power-factor correction circuit is eliminated so as to prevent the resistor from being damaged.

CONSTITUTION: In a switching regulator, an AC input is rectified, a capacitor is connected, via a power-factor correction circuit 31, from a parallel circuit by a resistor and by a switching element for bypass switching, both ends of the capacitor are used as inputs of a converter circuit, and electric power which is output from a second winding at a main transformer used for the converter circuit is controlled. In the switching regulator, the switching element for bypass switching is turned on at the same timing as the operating instruction of the power-factor correction circuit, and it is provided with an inrush-current preventing circuit system which short-circuits a resistor 3.

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